

Laboratory Analysis Report

Total Number of Pages: 10

Job ID : 19051780



10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, <http://www.ablabs.com>

Client Project Name : ITC - DP Outfall 002

Report To :	Client Name:	Intercontinental Terminal Company	P.O.#.:	370468
	Attn:	Tyler Blankenship	Sample Collected By:	C. Pilla, Cardino
	Client Address:	P. O. Box 698	Date Collected:	05/23/19 - 05/25/19
	City, State, Zip:	Deer Park , TX, 77536		

A&B Labs has analyzed the following samples...

Client Sample ID	Matrix	A&B Sample ID
WW-20190523-002-Day21	Water	19051780.01
WW-20190524-002-Day22	Water	19051780.02
WW-20190525-002-Day23	Water	19051780.03

Alisha Hughes

Released By: Alisha Hughes
Title: Project Manager
Date: 5/29/2019



This Laboratory is NELAP (T104704213-19-20) accredited. Effective: 04/01/2019; Expires: 3/31/2020

Scope: Non-Potable Water, Drinking Water, Air, Solid, Biological Tissue, Hazardous Waste

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client. Soil samples are reported on a wet weight basis unless otherwise noted. Uncertainty estimates are available on request.

Date Received : 05/25/2019 15:50

LABORATORY TERM AND QUALIFIER DEFINITION REPORT



Job ID : 19051780

Date: 5/29/2019

General Term Definition

Back-Wt	Back Weight	Post-Wt	Post Weight
BRL	Below Reporting Limit	ppm	parts per million
cfu	colony-forming units	Pre-Wt	Previous Weight
Conc.	Concentration	Q	Qualifier
D.F.	Dilution Factor	RegLimit	Regulatory Limit
Front-Wt	Front Weight	RPD	Relative Percent Difference
LCS	Laboratory Check Standard	RptLimit	Reporting Limit
LCSD	Laboratory Check Standard Duplicate	SDL	Sample Detection Limit
MS	Matrix Spike	surr	Surrogate
MSD	Matrix Spike Duplicate	T	Time
MW	Molecular Weight	TNTC	Too numerous to count
J	Estimation. Below calibration range but above MDL		

Qualifier Definition

M2	Matrix Spike and/or Matrix Spike Duplicate recovery is below laboratory control limits due to matrix interference.
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**LABORATORY TEST RESULTS**

Job ID : 19051780

Date 5/29/2019

Client Name: Intercontinental Terminal Company

Attn: Tyler Blankenship

Project Name: ITC - DP Outfall 002

Client Sample ID: WW-20190523-002-Day21

Job Sample ID: 19051780.01

Date Collected: 05/23/19

Sample Matrix Water

Time Collected: 15:00

% Moisture

Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	SDL	MQL	Q	Date Time	Analyst
SM 4500CN-CG	Cyanide, Amenable Ultra Low								
	Cyanide, Amenable	<0.001	mg/L	1	0.001	0.002		05/29/19 14:15	LEB

**LABORATORY TEST RESULTS**

Job ID : 19051780

Date 5/29/2019

Client Name: Intercontinental Terminal Company

Attn: Tyler Blankenship

Project Name: ITC - DP Outfall 002

Client Sample ID: WW-20190524-002-Day22

Job Sample ID: 19051780.02

Date Collected: 05/24/19

Sample Matrix Water

Time Collected: 14:00

% Moisture

Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	SDL	MQL	Q	Date Time	Analyst
SM 4500CN-CG	Cyanide, Amenable Ultra Low								
	Cyanide, Amenable	<0.001	mg/L	1	0.001	0.002		05/29/19 14:15	LEB

**LABORATORY TEST RESULTS**

Job ID : 19051780

Date 5/29/2019

Client Name: Intercontinental Terminal Company

Attn: Tyler Blankenship

Project Name: ITC - DP Outfall 002

Client Sample ID: WW-20190525-002-Day23

Job Sample ID: 19051780.03

Date Collected: 05/25/19

Sample Matrix Water

Time Collected: 14:00

% Moisture

Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	SDL	MLQ	Q	Date Time	Analyst
ASTM D6503-14	Enterococcus								
	Enterococci	<4	mpn/100mL	4	4.00			05/25/19 16:30	JYS
SM 3500Cr B	Hexavalent Chromium								
	Chromium, Hexavalent	<0.002	mg/L	1	0.002	0.01		05/25/19 17:00	LEB

QUALITY CONTROL CERTIFICATE



Job ID : 19051780

Date : 5/29/2019

Analysis : Enterococcus **Method :** ASTM D6503-14 **Reporting Units :** mpn/100mL

QC Batch ID : Qb19052960 **Created Date :** 05/25/19 **Created By :** JShah

Samples in This QC Batch : 19051780.03

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	SQL	MDL	Qual
Enterococci		< MDL	mpn/100mL	4	----	1	

QC Type: Duplicate

QC Sample ID: 19051780.03

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrLimit	Qual
Enterococci	BRL	BRL	mpn/100m	0	40	

QUALITY CONTROL CERTIFICATE



Job ID : 19051780

Date : 5/29/2019

Analysis : Cyanide, Amenable Ultra Low **Method :** SM 4500CN-CG **Reporting Units :** mg/L

QC Batch ID : Qb19052984 **Created Date :** 05/29/19 **Created By :** LEBell

Samples in This QC Batch : 19051780.01,02

Sample Preparation : PB19052938 **Prep Method :** SM 4500CN-CG **Prep Date :** 05/28/19 10:45 **Prep By :** LEBell

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	MQL	MDL	Qual
Cyanide, Amenable	57-12-5	< MDL	mg/L	1	0.002	0.001	

QC Type: Duplicate

QC Sample ID: 19051780.01

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit	Qual
Cyanide, Amenable	BRL	BRL		0	20	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Cyanide, Amenable	0.02	0.0200	100	0.02	0.0200	100	0		80-120	

QC Type: MS and MSD

QC Sample ID: 19051780.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Cyanide, Amenable	BRL	0.02	BRL							80-120	

QUALITY CONTROL CERTIFICATE



Job ID : 19051780

Date : 5/29/2019

Analysis : Hexavalent Chromium **Method :** SM 3500Cr B **Reporting Units :** mg/L

QC Batch ID : Qb19052992 **Created Date :** 05/29/19 **Created By :** LEBell

Samples in This QC Batch : 19051780.03

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	MQL	MDL	Qual
Chromium, Hexavalent		< MDL	mg/L	1	0.01	0.002	

QC Type: Duplicate

QC Sample ID: 19051780.03

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit	Qual
Chromium, Hexavalent	BRL	BRL	mg/L	0	20	


QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Chromium, Hexavalent	0.1	0.0987	98.7	0.1	0.0987	98.7		20	90-111	

QC Type: MS and MSD

QC Sample ID: 19051780.03

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Chromium, Hexavalent	BRL	0.1	0.0840	84	0.1	0.0819	81.9	2.5	20	90-111	M2

		10100 East Freeway (I-10) Houston, TX 77029 713-453-6060 1-877-478-6060 Toll Free 713-453-6091 Fax info@ablabs.com www.ablabs.com		1. REPORT TO: Co: Intercontinental Terminals Co Address: 1943 Independence Pkwy City, St. Zip: LaPorte TX 77571 Contact: Tyler Blankenship Phone: 281-884-0358/832-643-9594 Fax: Email: tblankenship@iterm.com CC: distribution list		2. INVOICE TO: Company: Same Address: Contact: Phone: Fax: Email: ap@iterm.com CC:		3. PO # 375784													
		4. Turnaround Time- Business Days <input checked="" type="checkbox"/> 1 Day * <input type="checkbox"/> 5 Days * <input type="checkbox"/> 2 Days * <input type="checkbox"/> 7 Days-Std <input type="checkbox"/> 3 Days * <input type="checkbox"/> Other _____ * Surcharge Applies		Day Zero is the day sample is received. Report due at 5pm on due day.																	
		5. Project #		6. Project Name / Location		7. Reporting Requirement <input type="checkbox"/> TRRP Limits Only <input type="checkbox"/> TRRP Rpt. Package <input type="checkbox"/> See Attached <input checked="" type="checkbox"/> Standard Level II		8. Sampler's Name & Company C. Pilla Cardno		9. Sample ID & Description											
		10. Sampling		11. Matrix		12. Matrix		13. No. of Containers		14. Containers*											
Date		Time		comp		grab		Water		Soil		Sludge		Oil		Air		Other		15. Preservatives**	
Outfall 002				X		X														16. pH-Lab Only	
NW-20190523-002-Day 21		5/23/19 1500		X				X												18. Comments	
NW-20190524-002-Day 22		5/24/19 1400		X				X												Flow: _____ Temp: _____	
NW-20190525-002-Day 23		5/25/19 1400				X		X													
19. RELINQUISHED BY		DATE		TIME		20. RECEIVED BY		DATE		TIME		KNOWN HAZARDS / COMMENT									
1) [Signature]		5/25/19		1530		1) KRISHNA		5/25/19		15:50											
2)						2)															
3)						3)															
* Containers: VOA- 40 ml vial 4 oz/8 oz- glass wide mouth		A/G- Amber/Glass 1 Liter P/O- Plastic/other		**Preservatives: C- Cool H- HCl N- HNO3 S- H2SO4 OH- NaOH T- Na2S2O3 X- Other		Temperature: 7.5-0.5°C = 7.0°C Intact? <input type="checkbox"/> Y <input type="checkbox"/> N 1707629		hitals KKK													
BILL OF LADING/TRACKING #		METHOD OF SHIPMENT		Samples will be disposed of after 30 days. A&B reserves the right to return samples.																	



Sample Condition Checklist

A&B JobID : 19051780		Date Received : 05/25/2019		Time Received : 3:50PM	
Client Name : Intercontinental Terminal Company					
Temperature : 7.5-0.5=7.0°C		Sample pH : >12 CN			
Thermometer ID : 1707629		pH Paper ID : 72375			
	Check Points	Yes	No	N/A	
1.	Cooler seal present and signed.		X		
2.	Sample(s) in a cooler.	X			
3.	If yes, ice in cooler.	X			
4.	Sample(s) received with chain-of-custody.	X			
5.	C-O-C signed and dated.	X			
6.	Sample(s) received with signed sample custody seal.		X		
7.	Sample containers arrived intact. (If no comment).	X			
8.	Matrix : <input type="checkbox"/> Water <input checked="" type="checkbox"/> Soil <input type="checkbox"/> Liquid <input type="checkbox"/> Sludge <input type="checkbox"/> Solid <input type="checkbox"/> Cassette <input type="checkbox"/> Tube <input type="checkbox"/> Bulk <input type="checkbox"/> Badge <input type="checkbox"/> Food <input type="checkbox"/> Other <input type="checkbox"/>				
9.	Sample(s) were received in appropriate container(s).	X			
10.	Sample(s) were received with proper preservative	X			
11.	All samples were logged or labeled.	X			
12.	Sample ID labels match C-O-C ID's	X			
13.	Bottle count on C-O-C matches bottles found.	X			
14.	Sample volume is sufficient for analyses requested.	X			
15.	Samples were received within the hold time.	X			
16.	VOA vials completely filled.			X	
17.	Sample accepted.	X			
18.	Has client been contacted about sub-out			X	
Comments : Include actions taken to resolve discrepancies/problem:					
CN: NaOH+thio. -LeBell 05,28,2019					

Received by : KKodali

Check in by/date : LeBell / 05/28/2019